

Patent Claims

1. Process for coating with a polymer a component of fiber reinforced plastic to be painted, wherein a prepolymer is modified with electrically conductive substances, extruded, and applied upon the substrate, wherein the prepolymer is pre-cured in a first step and is final cured in a second step by the action of thermal radiation and/or electromagnetic radiation.
2. Process according to Claim 1, thereby characterized, that the final curing occurs during a subsequent electrostatic painting, wherein the polymer coating is also painted.
3. Process according to Claim 1 or 2, thereby characterized, that the electrostatic painting is cataphoretic painting.
4. Process according to one of Claims 1 through 3, thereby characterized, that the prepolymer is initially extruded as conductive film intermediate, which in a subsequent step is applied upon the component.
5. Process according to one of Claims 1 through 3, thereby characterized, that the prepolymer is extruded directly upon the component.
6. Process according to one of Claims 1 through 5, thereby characterized, that the edges of the component are covered over by the extruded and cross-linked polymer.

7. Process according to one of Claims 1 through 6, thereby characterized, that the cross-linking of the pre-polymer occurs by electromagnetic waves.
8. Process according to one of Claims 1 through 7, thereby characterized, that the prepolymer is cross-linked by UV-radiation.